Harsh Kumar

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EDUCATION

Graphic Era Deemed to be University   Dehradun,Uttarakhand
Bachelor of Technology in Computer Science and Engineering (GPA: 8.73 / 10.00)   *Sept 2021- Present*

Kendriya Vidyalaya   Shahjahanpur, Uttarpradesh
C.B.S.E (12th) (89.4 %)   *April 2020 – March 2021*

Kendriya Vidyalaya   Shahjahanpur, Uttarpradesh
C.B.S.E (10th) (87.4 %)   *April 2018 – March 2019*

PROJECTS

Multiplayer Chess Game | *Node.js, Express.js, Socket.IO, JS, Tailwind CSS*   June 2024 - July 2024
- Developed a real-time multiplayer chess game with **100% seamless gameplay** using **Node.js, Express.js, and Socket.IO** to enable efficient server-client communication.
- Designed a responsive interface with Tailwind CSS and JavaScript for a seamless user experience.
- Optimized game performance for real-time synchronization and low-latency gameplay.
  Live Link: Play Chess Online **GitHub**: Code

Virtual Mouse | *OpenCV, MediaPipe, PyAutoGUI, Python*   May 2024 - June 2024
- Implemented a sophisticated hand gesture-based cursor control system using OpenCV, MediaPipe, PyAutoGUI, and pynput, achieving precise movement and control.
- Enabled precise cursor control with single-click and double-click through gesture recognition.
- Integrated a screenshot capture feature, expanding the system's capabilities.
  GitHub: Code

Algorithm Visualizer | *React.js, JavaScript*   July 2024 - Aug 2024
- Created an interactive algorithm visualizer in React.js for key graph algorithms: Dijkstra's, BFS, DFS, Bellman-Ford, and Kruskal's.
- Integrated dynamic visualizations to represent algorithm execution, enhancing understanding of graph traversal.
- Improved user experience with smooth animations and intuitive controls.
  Live Link: Visualizer **GitHub**: Code

Speech Translator | *React.js, JS, APIs for speech-to-text and translation*   Dec 2023 - Jan 2024
- implemented a React-based web application for high-accuracy speech-to-text conversion with integrated multi-language translation using modern APIs.
- Integrated multi-language translation features to convert text into various languages.
- Optimized real-time translation for seamless user experience and global accessibility.
  Live Link: Speech Translator **GitHub**: Code

TECHNICAL SKILLS

Languages: C, C++, SQL, JavaScript, HTML, CSS.
Frameworks/Libraries: Express.js, Node.js, ReactJS.
Developer Tools: Git, Github, Google Cloud Platform, VS Code.
Libraries: pandas, NumPy, Opencv, Mediapipe.
Soft skills and Areas of Interest : Problem Solving, Interpersonal Skills.
Database: MySQL.

SCHOLASTIC ACHIEVEMENTS

Solved: 800+ problems combinely on Leetcode and GFG.
Leetcode: Link
GFG: Link

RELEVANT COURSEWORK

Computer Science: Data structures and algorithms, Object-Oriented programming, Database management system, operating system, computer networks.